

## A DIVISION OF METROLOGY

Novel Exhibit Now Being Prepared by the National Museum.

The History of Counting, Recording, Weighing, and Measuring to the Present—Methods in Use in Other Days—An Interesting Collection.

Prof. Otto T. Mason, head curator of the National Museum, is enthusiastic regarding the future of the new division of metrology, which, he says, is destined to have one of the most interesting and instructive exhibits in the museum. It will be the purpose of the exhibit to illustrate all the methods for counting, recording, weighing, and measuring employed by mankind from the earliest ages up to the present time. The immense scope of such an exhibit, illustrating, as it would, the progress of humanity in the arts and sciences, precludes the probability of its being perfected within a reasonable period, unless, indeed, Congress should make an adequate appropriation; otherwise the usual method of the aggregation of collections at the museum, that of relying upon private donations, will have to be adhered to.

First in order in the collection will be methods of numbering. It may reasonably be conjectured that the first means employed by man to count were the fingers of his hands. With these, however, he could only count ten; but it was then a simple expedient, when he wished to go further, to pick up a lot of sticks and stones, and use these to indicate the number he intended to convey. Years ago, when some Indians in this country were required to make a census of their families, the employees of the Census Bureau were somewhat surprised to receive three huge bundles of sticks, one to indicate the number of men, the other of women, and the other of juveniles in the tribes. Fancy the amount of development represented by the difference between this primitive expedient and the Hollerith counting machine used in our census! Here is a machine that even the simplicity or perversity cannot make go wrong; that has actually more moral character than a great many of those who operate it. The perfection to which these counting machines have been brought is truly astonishing, and they are used in all banks and establishments where the greatest celerity and exactness are required.

A most interesting feature of the collection at present is the use of the scales of the exchequer, in use in England till 1858. These are nothing more than notched sticks, concerning which the most famous of modern English novelists wrote as follows:

"Ages ago, a savage mode of keeping accounts on notched sticks was introduced into the Court of Exchequer, and the accounts were kept much as Robinson Crusoe kept his calendar on the desert island. In the course of the exchequer revolution of time, the celebrated Cocker was born and died. Walkingham, of the 'Tutor's Assistant,' well versed in figures, was also born and died—a multitude of accountants, bookkeepers, and actuaries were born and died. Still official routine inclined to the use of these notched sticks, as if they were the pillars of the constitution, and still the exchequer accounts continued to be kept on certain splints of elm-wood, called 'tallies.' In the reign of George III an enquiry was made by some revolutionary spirit whether—pens, ink, and paper, and slates and pencils being in existence—this obstinate adherence to an obsolete custom ought to be continued, and whether a change ought not to be effected. All the red tape in the country grew redder at the bare mention of this bold and original conception, and it took half a century to get the sticks abolished. In 1834 it was found that there was a considerable accumulation of them, and the question then arose, what was to be done with such worn-out, worm-eaten, rotten old bits of wood? I dare say there was a vast amount of minuting, memorandumizing, and despatch boxing on this mighty subject. The sticks were housed at Westminster, and it would naturally occur to any intelligent person that nothing could be easier than to allow them to be carried away for firewood by the miserable people who live in that neighborhood. However, they never had been useful, and official routine required that they never should be, and so the order went forth that they were to be privately and confidentially burned. It came to pass that they were to be burned in the stove in the House of Lords. The stove, however, with those preposterous sticks, set fire to the paneling, the paneling set fire to the House of Lords, the House of Lords set fire to the House of Commons; the two houses were reduced to ashes; architects were called in to build others; we are now in the second million of the cost thereof; the national pig is not nearly over the sea yet. The sticks, however, have not been burned. They have not gone home tonight. Now, I think we may reasonably remark, in conclusion, that all obstinate adherence to rubbish which the time has long outlived is certain to have in the soul of it more or less that is pernicious and destructive, and that will some day set fire to something or other, which, if given boldly to the winds, would have been harmless, but which, obstinately retained, is ruinous."

Half-indefinite legends, written upon the sticks, indicate the nature of the accounts. The one stick represents the credit side of the transaction, the other the debit, and the tallying of the notches indicates that both are genuine. Among the early methods for numbering illustrated in the collection will be the abacus of the ancients. This was the most improved means among the Greeks and Romans for arithmetical calculations, and closely resembled the Chinese "swan-pan" of the present day. It contained seven long and seven shorter rods or bars, the former having four perforated beads running on them, and the latter one. One of the longer bars was for units, another for tens, and so on up to millions. The beads on the shorter bars denoted five—five units, five tens, etc. One long rod, and its corresponding short rod, were for marking ounces; and the short quarter rods for fractions of an ounce.

The swan-pan, to be seen in any Chinese laundry, closely resembles the Roman abacus in its construction and use. Computations are made with it by means of slender bamboo rods, sliding on a simpler board, fitted up with beads, strung on wires, which is sometimes employed in elementary schools in teaching the rudiments of arithmetic.

Next to the subject of counting and

recording will come that of measuring. In order to conceive the scope of this phase of the exhibit alone, one has only to reflect that man's utilization of the forces of nature, upon which is primarily based the industrial pre-eminence of the present age, is dependent directly upon his capabilities for measuring those forces. But this is the later development of the subject. Measurement in one form or another, must have been employed among men from the very commencement of society, as, without it, no comparison of values could have been effected, and hence there could have existed no commercial intercourse or useful arts. Measurement was contemporaneous with order among men; that is, it was the first step in human progress. It is needless to point out its relation to the sciences and to the arts, as it is, apparently, at the foundation of all.

The art of measuring, like that of numbering, began, it may be conceived, by the use, in that connection, of the human hand and afterwards, perhaps, of the human foot. The words "foot" and "hand" are still employed to designate the standard of measurement, which rate units of linear measure length of those members of the body. In early ages, it was the hand and foot of the king that were selected as the standards, and, as it would have been palpably inconvenient, not to say undignified, for a potentate to go about in the capacity of a measure, sticks were gauged the required length or lengths, and hence the origin of our modern foot rule.

From the methods of measurement employed in primitive times up to the present as practiced today—this is a long way indeed! In connection with the latter phase of the subject, there will be shown the methods and apparatus for measuring light and heat; even the light and heat of the most distant star, by means of the bolometer; the methods for the measurement of the repulsive and the attractive forces of an inch, and the means for determining the sizes and distances of the sun, moon, planets, and stars; the means of measuring the globe, "and all that it inhabits"—for determining the bulk of liquids, solids, and gases. Even flying time itself has long had to submit to accurate measurement, as evidenced by the clock, which measures the day, and the calendar, which measures the year.

Today, the chief aim of the science of physics itself is measurement, and the most important measurement is that of heat. In order to recognize this, it is only necessary to reflect that all modern mechanical operations depend upon the employment of heat. In the words of a recent writer, heat generates steam, is changed into electricity, drives steamships, reduces ores, warms buildings. Is it not, then, of the greatest importance? For unless this is done, it cannot be properly controlled. It is found essential, also, to measure the effect of heat on gases, liquids, and solids, to find out how much it expands them, how and at what degree it consumes, or melts, or gasifies them. Knowledge such as this is necessary to all manner of manufacturing, smelting, power-producing operations. In regard to the measurement of temperature, it may be said that the German Government recently expended much money and employed the protracted labor of distinguished scientists, in carrying certain established temperature calculations from the fifth to the seventh figure beyond the decimal.

All measurement is three kinds, linear, square, or superficial, and cubic; that is, it embraces the three known geometrical dimensions. This is a conclusion, then, that when it is more or less complete, few ethnological exhibits will better answer what Prof. Mason describes as the purpose of all such exhibits, "the history of humanity in things."

Last in the collection will come methods for weighing. Weighing machines of all kinds, from the most primitive to the most complicated, will be shown; some of the latter capable of weighing hundreds of tons, and others so delicate as to determine the force of gravity upon a human hair, or the weight of a lead-pencil line upon a sheet of paper.

Nothing more is attempted, in this brief sketch, than to hint at a very few of the many points of interest, which the collection will embrace. Suffice it to say, in conclusion, that, when it is more or less complete, few ethnological exhibits will better answer what Prof. Mason describes as the purpose of all such exhibits, "the history of humanity in things."

THE CORONATION CHAIR.

The Most Historic Bit of Furniture in England.

The coronation chair is one of the most interesting pieces of historic furniture that exists; as a venerable witness in the coronations of English kings, it has not been overestimated as a work of art, made by order of King Edward I to enclose the stone from Stone, its importance is equally great. What was the fate that befell this chair under the sympathetic charge of the officials? Mature reflection convinced these gentlemen that it did not look sufficiently venerable, and that it had been painted grey with age and history, on the "bath red" spotted carpet, surrounded as it was with the armorial bearings of the House of York, it would have stood a silent and yet eloquent witness against modern official taste.

The chair was placed in the hands of the upholsterers. It was smeared with brown stain and varnish and otherwise tinkered. Drugged along by sundry workmen over the unprotected mosaic pavement of Abbot's Court, the chair was brought round from the recesses where it had been "doctored." The flat surfaces of the chair, back and arms still retain in places the ancient gesso ornamentation, which survives Mr. Wright, the clever restorer, to do some of their upholsterers, and very much to the credit of their art.

A question was asked in the House on the treatment to which the coronation chair had been subjected, and a note from the "Athenaeum" of the 9th of July, 1857, on Tuesday, Mr. Plunket, being further questioned about the coronation chair, admitted that it had been stained, and that the stain was of a brown color. With respect to the restoration of the chair, he said that "certain missing portions were being made up by the use of the recent ceremony replaced by new work." The missing portions are some parts of the old canopy broken away, and which were replaced by modern stuff stuck on with varnish. The statement that such a restoration was of necessity shows the more how unfit those for whom Mr. Plunket speaks are to have the manipulation of any monument of historical or artistic value. If the chair had been defective in any structural part some repairs would have been of necessity to it for use. But it was sound and good, and the repairs were not substantial, then the question of the chair's restoration was a Chamberlain set around it for the use of the House of Commons, and a "defect" was incident to the chair's antiquity, which in these days, is itself at least as great a defect as any modern monarch's throne. Nineteenth Century.

## THE NAMES OF ANIMALS.

Their Unique Origins Traced From the Ancients.

How the Various Canine Breeds Received Cognomens—Grades of the Givento Domestic Quadrupeds by Man—Designating the Wild Beasts.

The origin of the names now given to our pet and domestic animals are interesting to trace. To commence with the canine species, it may be presumed that "dog" is a contraction of the Icelandic "doggr." The Greek name for an animal of the canine species was "kynos," which was evolved into the Latin "canis," and thence into the Anglo-Saxon and modern German "hund," and eventually into "hound," the modern English designation for a sporting dog. A staghound is a hound especially servicable in stag hunting; the bloodhound possesses the instinct of tracking blood by smell; while the greyhound is not called so because of its color, as is commonly believed, but because this species of dog breed was originally brought from Graikia, the native name of Greece. A valuable species of hound closely allied to the bloodhound is the talbot, so-called because it is borne on the arms of the Earl of Shrewsbury, whose family name is Talbot.

The bulldog was formerly employed for baiting bulls. A pointer is a sporting dog trained to point out the presence of game with its nose, and a setter is a dog that crouches over the place where the game lies hidden. The species of burrowing dog is styled a terrier, in accordance with the Latin "terra," the earth. A harrier is a dog especially valuable for hunting hares; while the term "beagle," applied to a breed of harrier pre-eminently useful in rabbit hunting, came originally from the Gaelic, "beag," signifying little, because it is really a species of hound.

The now popular name of the terrier was once regarded as a valuable addition to a pack of foxhounds. The St. Bernard dogs were bred at the famous monastery of St. Bernard in the Alps. The Esquimaux dog is found in Greenland and other Arctic climes; whereas the Pomeranian variety of this dog is bred in Pomerania, Prussia. A skye terrier is one of a breed of terrier peculiar to the Isle of Skye, in the Hebrides. The word "mastiff," descriptive of the Italian "mastino," is a contraction of the word "mastino." The Newfoundland dog is a native of Newfoundland, and is also found in Labrador. A Dalmatian is so designated from the country where it was first bred; it is more generally known as a coach dog, and a few years ago, was quite fashionable, nearly every carriage having one of the spotted canines trotting after it.

The spaniel is a Spanish dog, of which the best breed originally came from the Isle of Hatt, in the West Indies, formerly known as Hispaniola. The small species of spaniel, of which Charles I was so fond, has ever since borne the name of the King Charles spaniel. The famous Blenheim or Marlborough spaniel is so called from Blenheim Palace, Oxfordshire, the seat of the Duke of Marlborough, where the breed has been preserved in all its purity since the commencement of the seventeenth century. It is very rare in this country.

The term "poodle" comes from the German "puddel," a puddle, or pool, the dog named being closely allied to what is known as the water dog. As is implied by its name, a lap-dog is a diminutive pet that can be carried about in doors, or nursed in a lady's lap at home.

The word "horse" is derived from the Greek "hippos," and originally from the Sanskrit "breah," to neigh. The cat traces its name through the French "chat" and Latin "gatus," from the Arabic "gitt." When people speak of the cat familiarly as "puss," they little think, perhaps, that they are giving this animal the same name as did the ancient Egyptians, because like the moon, she was more active at night, and her eyes changed similarly to the changes of the moon. As time wore on, the word "puss" came to have a meaning of a cat, became shortened into "pus," after which the corruption into "puss" was easy.

In regard to the names of wild animals it may be said that the majority of these can be traced to the ancient languages, principally Greek and Latin. The name of "elephant" was evidently received through the Greek "elephas," and the Latin "elephas," from the Sanskrit "elephanti," an Indian bull. Hippopotamus is the Greek for river horse, "hippos" being "horse" in that language, and "potamus," river. "Ithiaca" is a Latin term derived from the two Greek words, "ithi," the nose, and "keras," a horn, referring to the protuberance on the mouth of the animal, so designated. It has been supposed by some that the named animal described in the Scriptures as a unicorn was a rhinoceros, if not a species of wild bull. The term "panther" remains the same spelling as in the original Greek; lion comes from the Latin "leo," and tiger from the Latin and Greek "tigris," while "leopard" is merely a contraction of the Latin "leopardus," a spotted lion.

Several animals trace their names from the East. "Chamois" is from the mentioned the camel, called in Arabic "gamel," and Anglified through the Greek "kamelos," and Latin, "camelos," the giraffe, from the Arabic "zarafah," and Egyptian "Soraphe," signifying a long neck. Dromedary, however, is a modification of the French word, "dromedaire," derived from the Greek word, "dromas," running. The name "lion" derives its name from the Latin designation for "lion," and the Latin "leo," from the fact that, like the gentry unencumbered by heavy attributes, they select the night for promading.

"Wolf" is a modern spelling of the Anglo-Saxon "wulf," derived from the Gothic "wulf," and the Latin "vulpes," a fox. The wolverine, or, as it is sometimes called, the "prairie-wolf," was originally so called because its instincts were supposed to be vulpine. The jackal, a Persian and Indian animal allied to the fox, is styled in the former tongue "shagal," and in the latter, "serigala," both names signifying a fox. Fox is an Anglo-Saxon term, derived from the Icelandic "fax," a hair-mane. "Bear" is an altered spelling of the Anglo-Saxon, "beorn," and "beaver," of the Anglo-Saxon "beaver," derived from the Latin, "iber." The aye-aye, a native of Madagascar, is so called from its peculiar cry, the opossum was described as the opassum in the native language

## FRANKING IN ENGLAND.

Peculiarities of the System Which Has Been Abolished.

British Members of Parliament Now Compelled to Pay Postage on All Mail Matters—Some Abuses Which Brought About the Law's Repeal.

Among the numerous privileges which time has swept away, it might have been supposed that the right of franking, which of old gave members of Parliament to pass their letters free through the post had disappeared past the possibility of recall, and the proposal at the close of last session to resuscitate the right of "franking" must have come to naught. The suggestion, however, that the supporters of the recent proposal to restore to some measure the old and abused privilege may be drawn to the words of Sir Henrich Finch, who in 1869, when Parliament was asked to sanction the practice of franking, declared that he proposed to be "a poor, mendacious, profligate, and below the honor of the House."—London Globe.

SHOEMAKING YEARS AGO.

Ex-Gov. Claflin, of Massachusetts, Describes the Pioneer Industry.

About the year 1850 I was working in the shoe factories of Milford. I was then eleven years old. Associated in business in the same town was Horace Claflin, my brother. There were also General Underwood, Rufus Chapin, and Mr. Bradstreet. There were beyond a doubt the largest shoe manufacturers in the country at that time, and Milford was their headquarters. We had one or two shops in Philadelphia. Manufacturing was carried on in a small section in New York and New York, and also in Cincinnati. There was no industry west of the Rocky Mountains, and St. Louis was considered simply a distributing center for the Eastern product. The year 1850 was a year of great change. I went West and established a branch in the city of St. Louis. St. Louis at that time was a leading resort for Eastern people, and for that reason I had chosen it as my future home. At that time, Mr. Hood & Abbott were the principal wholesale dealers at that time. Mr. Hood was the grandfather or uncle of the present head of the rubber company which bears the name. He was a Lynn man, and also his name was Lynn. There were many shoe centers at that time, as today. If my recollection serves me right, I. L. Warren was the principal distributing agent in Louisville, which practically controlled the trade in the South. I also had one or two of these distributing agents, and at that time nothing was heard of the city of Chicago. There were no manufacturers South. New Orleans, Natchez, Charleston, and all other large cities at that portion of the country were supplied by Massachusetts. Philadelphia distributed its quota of women's fine shoes. Strangely enough there were two shoe factories in the State of Connecticut, situated in the town of Middletown. I also had one or two of these distributing agents, and at that time nothing was heard of the city of Chicago. There were no manufacturers South. 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